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ONLINE ISSN : 1883-2261

PRINT ISSN : 0389-1763

## Japanese Journal of Farm Work Research

Vol. 44 (2009) , No. 1 pp.29-34

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### Application Timing of Gibberellin with CPPU for Seedless Berries Induced by Streptomycin in 'Fujiminori' Grape

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(Received May 12, 2008)

(Accepted February 7, 2009)

#### Abstract

Effects of gibberellin (GA) with 1-(2-chloro-4-pyridyl)-3-phenylurea (CPPU) application at different dates after full bloom were investigated for producing enlarged and high quality berries in streptomycin(SM)-treated 'Fujiminori' seedless grapes.

1) Applying GA with CPPU 10 or 15 days after full bloom continuously increased berry size even after the beginning of veraison. Decline in L\* value and peak of a\* value of skin were delayed one week by either treatment.

2) The rate of seedless berries increased by the SM treatment. Later application of GA with CPPU produced heavier berries. Rachis elongation was suppressed by applying GA with CPPU 10 or 15 days after full bloom. Later application of GA with CPPU caused lighter skin color and lower Brix.

3) In conclusion, applying GA with CPPU 5 days after full bloom produced dark skin color of seedless berries and moderately compact clusters in SM treated 'Fujiminori' grapes.

#### Key words

[tetraploid grape](#), [labor-saving](#), [streptomycin](#), [gibberellin](#), [CPPU](#)

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Kazunori ISHIKAWA and Tadashi BABA (2009): Application Timing of Gibberellin with CPPU for Seedless Berries Induced by Streptomycin in 'Fujiminori' Grape . Japanese Journal of Farm Work Research 44: 1 29-34 .

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doi:10.4035/jsfwr.44.29

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